Patent Claims

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1. Electrically heatable insole comprising at least at one sole basic body and a cover layer, at least one heating electrode, at least one rechargeable battery which is electrically connected to the heating electrode and also a control circuit for controlling the heating process and for recharging the battery, wherein heating electrode, rechargeable battery and control circuit are disposed in the sole basic body and/or between sole basic body and cover layer, characterised in that

the control circuit (6, 8) has a remote control device for switching the heating process on and off and a protective circuit for disconnecting the rechargeable battery in the event of a defect.

- 20 2. Insole according to claim 1, characterised in that the at least one rechargeable battery (4, 5) is a lithium accumulator.
 - 3. Insole according to one of the claims 1 to 2, characterised in that the rechargeable battery or the rechargeable batteries is/are disposed in the heel region and/or in the foot arch region of the insole.
- 30 4. Insole according to one of the claims 1 to 3, characterised in that the heating electrode has Minimelf resistors.
- 5. Insole according to one of the claims 1 to 4,

 characterised in that the control circuit is a

control circuit for continuous regulation of the strength of the heating process

- 6. Insole according to claim 1 to 5, characterised in that the remote control device (8) has an external operating part (10) and an incorporated control part.
- 7. Insole according to one of the claims 1 to 6,

 characterised in that the remote control device
 has a contact-free switch.

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- 8. Insole according to one of the claims 1 to 7, characterised in that the remote control device has a transmitting and receiving unit for wireless transmission of information.
 - 9. Insole according to one of the claims 5 to 8, characterised in that the operating part (10) has display elements (11) for functional display and/or temperature display.
 - 10. Insole according to one of the claims 5 to 9, characterised in that the operating part (10) has a transmitter and an actuation element (12) for activating the transmitter which, in the activated state, transmits a wireless switch-on signal to the incorporated control part.
- 11. Insole according to one of the claims 8 to 10, characterised in that the operating part (10) has a receiver and in that the remote control device is a bi-directional remote control.
- 35 12. Insole according to one of the claims 5 to 11, characterised in that the operating part (10)

has a first switching element of a contact-free switch which cooperates with a second switching element disposed in the incorporated control part.

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13. Insole according to one of the claims 5 to 12, characterised in that the contact-free switch is configured as a reed switch, magnetic switch, proximity switch or the like.

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14. Insole according to one of the claims 5 to 13, characterised in that a plug contact connected to the control circuit (6, 8) for connection of a network device is incorporated in the sole basic body (2).

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